

**NRDA Expertise of Regional Scientists (2003)**

AREA OF EXPERTISE	SCIENTIST	AGENCY
Prepare NRDA Pre-assessment plan	Ardito August Enser Gibson Quinn Csulak Ricker Varela French McCay Rowe	RI RI RI RI RI US US US NGO NGO
Develop ecological statistics and sampling design	August Paton Sullivan-Watts Csulak Halavik	RI RI RI US US
Provide aerial assessment of the spill (observe the oil from an aircraft and provide response considerations)	Ricker	US
Provide aerial assessment of the spill environment	Allin Csulak Ricker Varela	RI US US US
Provide boats for water and sediment sampling	Allin Greene Quinn Halavik MacLachlan Varela	RI RI RI US US US
Collect and document samples of the spill source and the water column	Deacutis Hargraves Hinga Csulak Halavik Ricker	RI RI RI US US US
Analyze and fingerprint samples of the spill source and the water column	Quinn	RI
Deploy meteorological station and measurements		
Measure currents in situ	Hall	NGO
Assess and document impact of oiling on subsurface sediments	Hargraves Hinga Csulak Halavik Ricker Varela	RI RI US US US US
Model and map the oil-spill trajectory	August French McCay Rowe Whittier	RI NGO NGO NGO
Assess and document extent of discrete oil deposits (e.g., tarballs) on shore	Deacutis Csulak Ricker Varela	RI US US US

Survey oiling of wetlands	Allin Ardito Csulak Halavik MacLachlan Ricker Varela	RI RI US US US US US
Identify and document impacts on economic resources (threats to commercial, cultural, or recreational activities and resources)	Ardito Enser Csulak	RI RI US
Scuba dive for scientific observations	Ricker	US
Create photo and video record of oil impacts	Ardito Hinga Csulak Ricker	RI RI US US
Interpret aerial photographs	Duhaim LaBash	RI RI
Use GIS to analyze and map field conditions	Allin August Damon Duhaim Jordan LaBash Stachelhaus MacLachlan Rowe Galagan	RI RI RI RI RI RI RI US NGO NGO
Process and manage data for Natural Resource Damage Assessment	August Damon Duhaim Gould Hinga LaBash Quinn Csulak Ricker Varela French McCay Rowe	RI RI RI RI RI RI RI US US US NGO NGO
Develop and maintain Internet-based information technology (e.g., WWWeb, IMS)	August Damon Duhaim LaBash ASA	RI RI RI RI NGO
Manage QA/QC (Quality Assessment/Quality Control) and chain of custody	Gibson Quinn	RI RI
Rehabilitate or euthanize oiled wildlife	Gibson	RI
Assess and document impact of oiling in tissues of oiled biota	Quinn Varela	RI US

**For expertise with particular biotic communities, see below**

BIOTA OF EXPERTISE	SCIENTIST	AGENCY	AREA OF EXPERTISE		
			Sampling	Bio Data Analysis	Assess Oiling
Marine finfish	Deacutis Klein-MacPhee Csulak Halavik French McCay Rowe	RI RI US US NGO NGO	X X X X X X	X X X X X	X X X X
Freshwater fish	Klein-MacPhee Halavik Varela French McCay Rowe	RI US NGO NGO	X X	X X	X X X
Shellfish	Csulak Fench McCay Rowe	US NGO NGO		X X	X X X
Other marine invertebrates (besides shellfish)	Deacutis Sullivan-Watts Berman Csulak French McCay Rowe	RI RI US US NGO NGO	X X X	X X	X X X
Birds	Allin Enser Gibson Paton Buckley Csulak MacLachlan Varela French McCay Rowe	RI RI RI RI US US US US NGO NGO	X X X X X X X X X X	X X X X X X X X X X	X X X X X X X X X X
Marine mammals	Csulak French McCay Rowe	US NGO NGO		X X	X X X
Terrestrial mammals	August MacLachlan Varela French McCay Rowe	RI US US NGO NGO	X X		X X X X
Marine reptiles and amphibians	Csulak Varela French McCay Rowe	US US NGO NGO			X X X X
Brackish or freshwater reptiles and amphibians	Paton Csulak Varela French McCay Rowe	RI US US NGO NGO	X	X	X X X X X

Eelgrass beds	Deacutis Hargraves Csulak MacLachlan Ricker French McCay Rowe	RI RI US US US NGO NGO	X X X X X		X X X X X
Intertidal epifauna	Csulak Varela French McCay Rowe	US US NGO NGO		X	X X X X
Intertidal infauna	Deacutis Csulak Varela French McCay Rowe	RI US US NGO NGO	X		X X X X X
Intertidal macroalgae and seaweeds	Hargraves Csulak Ricker French McCay Rowe	RI US US NGO NGO	X X X X	X	X X X X X